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☐	L26	((online or on-line or (on adj1 line)) or www or (world adj1 wide adj1 web) or internet)	82371
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1 Industrial sessions: middle-tier caching: Middle-tier database caching for e-business   ■
Qiong Luo, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: 🔲 pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

2 Predicting the QoS of an electronic commerce server: those mean percentiles   ■
Diwakar Krishnamurthy, Jerome Rolia
December 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 3

Full text available: 🔲 pdf(818.91 KB)   Additional Information: full citation, abstract, index terms

This paper presents a case study on Quality of Service (QoS) measures and Service Level Agreements (SLA) for an electronic commerce server. Electronic commerce systems typically rely on a combination of an HTTP server and a database server that may be integrated with other enterprise information resources. Some interactions with these systems cause requests for static HTML pages. Others cause significant amounts of database processing. Response time percentiles are well-accepted measures of QoS ...

3 Model-driven development of Web applications: the AutoWeb system   ■
Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: 🔲 pdf(6.94 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in

an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

4 Consistency and replication: Application specific data replication for edge services   ■
Lei Gao, Mike Dahlin, Amol Nayate, Jiandan Zheng, Arun Iyengar
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: 🔲 pdf(476.22 KB)   Additional Information: full citation, abstract, references, index terms

The emerging edge services architecture promises to improve the availability and performance of web services by replicating servers at geographically distributed sites. A key challenge in such systems is data replication and consistency so that edge server code can manipulate shared data without incurring the availability and performance penalties that would be incurred by accessing a traditional centralized database. This paper explores using a distributed object architecture to build an edge s ...

Keywords: availability, data replication, distributed objects, edge services, performance, wide area networks (WAN)

5 Querying web distributed databases for XML-based E-businesses: requirement   ■
analysis, design, and implementation
Hiroshi Ishikawa, Manabu Ohta
January 2001 **Proceedings of the 12th Australasian conference on Database technologies**

Full text available: 🔲 pdf(850.81 KB)
🔲 Publisher Site   Additional Information: full citation, abstract, references, index terms

Electronic Commerce (EC) business models like e-brokers on the Web use XML databases such as product and customer data. To flexibly model such applications, we need a modeling language for EC businesses, that is, business processes. To this end, we have adopted a query language approach to modeling and have designed a query language for distributed XML databases called XBML suitable for EC businesses. In this paper, we discuss the requirements for an XML query language for supporting EC business ...

6 HTTP Cookies: Standards, privacy, and politics   ■
David M. Kristol
November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Full text available: 🔲 pdf(390.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontechn ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

7 Survey articles: Web usage mining: discovery and applications of usage patterns from   ■
Web data
Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing, pattern discovery*, and *pattern analysis.* This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

8 The <bigwig> project
Claus Brabrand, Anders Møller, Michael I. Schwartzbach
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available: pdf(586.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

9 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

10 WebQuilt: A proxy-based approach to remote web usability testing
July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3

Full text available: pdf(2.89 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

WebQuilt is a web logging and visualization system that helps web design teams run usability tests (both local and remote) and analyze the collected data. Logging is done through a proxy, overcoming many of the problems with server-side and client-side logging. Captured usage traces can be aggregated and visualized in a zooming interface that shows the web pages people viewed. The visualization also shows the most common paths taken through the web site for a given task, as well as the optimal p ...

Keywords: Usability evalution, WebQuilt, log file analysis, web proxy, web visualization

11 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT),** Volume 2 Issue 2

Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

12 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications,** Volume 7 Issue 5

Full text available: pdf(340.33 KB)   Additional Information: full citation, abstract, references, index terms

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

13 Integrating and customizing heterogeneous e-commerce applications

Anat Eyal, Tova Milo
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases,**
        Volume 10 Issue 1

Full text available: pdf(286.63 KB)   Additional Information: full citation, abstract, index terms

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

14 Mining e-commerce data: the good, the bad, and the ugly

Ron Kohavi
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on
        Knowledge discovery and data mining**

Full text available: pdf(505.53 KB)   Additional Information: full citation, abstract, references, index terms

Organizations conducting Electronic Commerce (e-commerce) can greatly benefit from the insight that data mining of transactional and clickstream data provides. Such insight helps

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not only to improve the electronic channel (e.g., a web site), but it is also a learning vehicle for the bigger organization conducting business at brick-and-mortar stores. The e-commerce site serves as an early alert system for emerging patterns and a laboratory for experimentation. For successful data mining, several ...

Keywords: E-commerce, application server, data mining, web server, web site architecture

15 <u>Commerce and Businesses: Self-managing, disconnected processes and mechanisms for mobile e-business</u>
J. Sairamesh, S. Goh, I. Stanoi, C. S. Li, S. Padmanabhan
September 2002 **Proceedings of the 2nd international workshop on Mobile commerce**
Full text available: pdf(351.90 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in various consumer and business markets. In this paper, we present a novel architecture and framework for end-to-end mobile e-business applications such as purchasing, retail point of sales, and order management. The design takes into consideration disconnection, application context and failure modes t ...

Keywords: context-driven computing, disconnected computing, mobile computing, mobile e-business, self-managing systems, workflow

16 <u>Automating information overload: linking databases to the Web</u>
Leonard A. White
November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready?**
Full text available: pdf(613.10 KB)   Additional Information: <u>full citation, references, index terms</u>

17 <u>Panel: The changing face of technical communication: new directions for the field in a new millennium</u>
Mark Zachry, Kelli Cargile Cook, Brenton D. Faber, David Clark
October 2001 **Proceedings of the 19th annual international conference on Computer documentation**
Full text available: pdf(262.45 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

In this panel session, the authors identify four different factors shaping the future of technical communication: user-centered design, corporate universities, cross-disciplinary collaboration, and knowledge management. The authors each address how factors once considered external to the field of technical communication are now becoming thoroughly integrated with it. These four studies, in conjunction, suggest how the field of technical communication is becoming increasingly complex and how part ...

Keywords: collaboration, corporate universities, customer relations management (CRM), disciplinarity, educational theory, knowledge management, multimedia, organizational learning, research, training, usability studies, user-centered design

18 <u>Spoken dialogue technology: enabling the conversational user interface</u>
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1
Full text available: pdf(987.69 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms, review</u>

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Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

19 Electronic shopping
Gerald L. Lohse, Peter Spiller
July 1998 **Communications of the ACM**, Volume 41 Issue 7

Full text available: pdf(279.64 KB)   Additional Information: full citation, references, citings, index terms

20 VIRTUS: a collaborative multi-user platform
Kurt Saar
February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language**
Full text available: pdf(4.09 MB)   Additional Information: full citation, references, citings, index terms

Keywords: VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

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